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(71)Applicant : SANYO CHEM IND LTD

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(72)Inventor : OTA YOSHIHISA
KISHIDA MASAYUKI

(54) LUBRICITY IMPROVER FOR FUEL OIL AND FUEL OIL COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain an additive for low-sulfur fuel oil exhibiting lubricity in low-sulfur fuel oil and exhibiting high performance in terms of low-temperature characteristics, oxidation stability, water separability and rustproofness as well, and to obtain a low-sulfur fuel oil composition containing the above additive.

SOLUTION: This additive as a lubricity improver for low-sulfur fuel oil with a sulfur content of ≤ 0.05 wt.%; essentially contains a monohydroxy compound A of the general formula $R-(CO)_m-(OA)_n-OH$ (R is a 1-18C hydrocarbon group; A is a 2-20C bivalent hydrocarbon group; (m) is 0 or 1; (n) is 1-10) having the following characteristics: solubility parameter (SP number): 8.5-10.0; HLB number: 0.5-9.6; molecular weight: 120-150; hydroxyl number: 75-450; and pour point: $\leq -5^\circ \text{C}$.